

# My Reproducible Manuscript

Lidiya Mishieva

## Meet Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

## Meet the penguins

The `penguins` data from the [palmerpenguins](#) package (M. Horst, Presmanes Hill, and B. Gorman 2022) contains size measurements for 344 penguins from three species observed on three islands in the Palmer Archipelago, Antarctica.

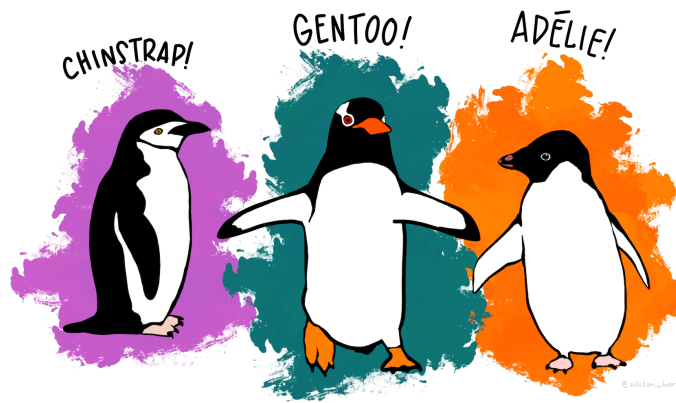


Figure 1: Amazing illustration

And this is just a random inline text reference for exercising purposes using the book by Gandrud (2018).

## Results

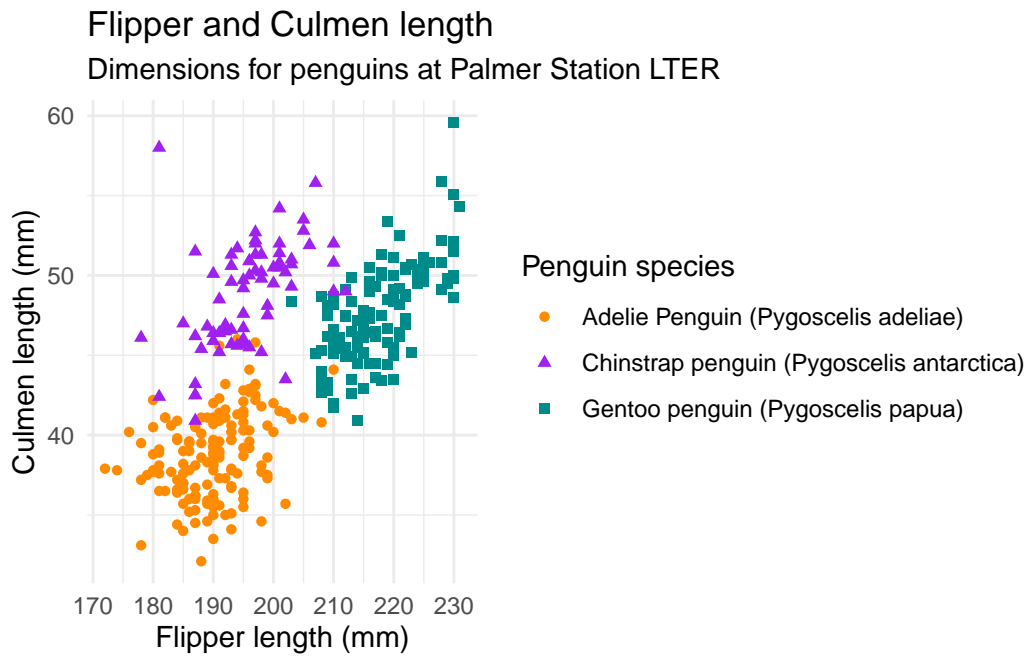


Figure 2: Amazing penguin scatterplot

Example of an inline code: 25 plus 25 equals 50. Also the data contains 152 Adelie penguins, 124 Gentoo penguins, and 68 Chinstrap penguins.

```
do_addition <- function(number1, number2){  
  
  # Check that arguments provided are numeric  
  if(class(number1) != "numeric" | class(number2) != "numeric"){  
    print("Error: one or more of your inputs are not numeric")  
  
    # Perform simple addition and return the result  
  } else{  
    result <- number1 + number2  
    return(result)  
  }  
}
```

```
a <- 4  
b <- 3  
do_addition(a, b)
```

## References

- Gandrud, Christopher. 2018. *Reproducible Research with R and RStudio*. 2nd ed. Chapman; Hall/CRC. <https://doi.org/10.1201/9781315382548>.
- M. Horst, Allison, Alison Presmanes Hill, and Kristen B. Gorman. 2022. “Palmer Archipelago Penguins Data in the Palmerpenguins R Package - An Alternative to Anderson’s Irises.” *The R Journal* 14 (1): 244–54. <https://doi.org/10.32614/RJ-2022-020>.